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NATIONAL LIBRARY of MEDICINE NEWS

Published for institutions and individuals interested in health sciences communications.

Lister Hill Center Director Appointed

Donald A. B. Lindberg, M.D., director of the National Library of Medicine, announced today the appointment of **Andrew Friede**, M.D., as director of the Lister Hill National Center for Biomedical Communications.

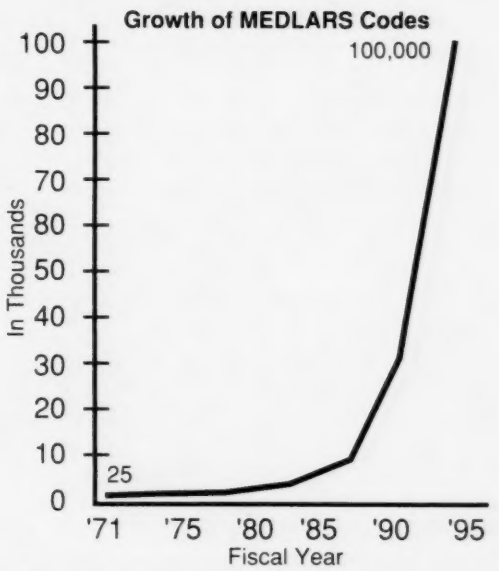
The Lister Hill Center is the Library's research and development component. Named after the late Senator from Alabama, the Center explores the uses of computer, communication, and audiovisual technologies to improve the organization, dissemination, and utilization of biomedical information. The Center has five branches and a staff of 78.

Before his appointment, Dr. Friede was chief of the Public Health Information Systems Branch, Information Resources Management Office, Centers for Disease Control and Prevention. Previous positions with that agency included assistant to the director for scientific projects, chief of the Scientific Systems Section, Epidemic Intelligence Service officer, and medical epidemiologist. Dr. Friede is a medical officer in the United States Public Health Service Commissioned Corps.

Dr. Friede led the team that designed and implemented CDC WONDER, a sophisticated information and communications system that provides user-friendly access to 45 databases for 4,000 users nationwide, specialized analysis and graphics software, and e-mail. It allows the tracking of disease trends and hospitalization rates, and provides instant access to CDC reports and recommendations on thousands of topics. The system is accessed 4,000 times a day.

Dr. Friede has a bachelor's degree, Summa Cum Laude, from the University of Kansas, his M.D. from Johns Hopkins University, and a Masters of Public Health degree from Harvard University.

Dr. Friede succeeds **Daniel R. Masys**, M.D., who retired from the Public Health Service Commissioned Corps last September to become director of biomedical informatics at the School of Medicine, University of California-San Diego (*News*, May–June 1994). □



The number of MEDLARS ID codes reached 100,000 in January. The number of databases in the MEDLARS group now totals more than 40 including MEDLINE, the database most often accessed.

NATIONAL LIBRARY of MEDICINE NEWS

Donald A. B. Lindberg, M.D., director, NLM
Robert B. Mehnert, chief, Office of Public Information
Roger L. Gilkeson, editor (301) 496-7771
Frances M. Beckwith, writer
Karlton Jackson, photographer

8600 Rockville Pike, Bethesda, MD 20894

The Secretary of Health and Human Services has determined that the publication of this bimonthly periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through June 30, 1995.

The paper used in this publication meets the minimum requirements of American National Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI Z39.48-1984, effective with Vol. 43, No. 6-7.

Monograph & Serial Gaps

NLM regularly seeks the help of the medical library community in filling gaps in its monograph and serial collections. If you can provide any of these items we would be most grateful.

Monographs

If you are able to provide a copy of any of the monographs listed below, please send to:

National Library of Medicine
TSD-MONOGRAPHS Attn: L. Turnage
Bethesda, MD 20894

Poole-Wilson, P. A., editor. Congestive heart failure symposium: prazosin in ambulatory patients with heart failure. London: Royal Society of Medicine, 1984. (International congress and symposium series; no.63)

Reid, J. L.; Pickup, A. J., editors. Calcium antagonists and the treatment of hypertension. London: Royal Society of Medicine, 1984. (International congress and symposium series; no.62)

Richardson, R. G., editor. Rheumatological disease process: focus on piroxicam. London: Royal Society of Medicine, 1985. (International congress and symposium series; no.67)

Shulman, Neil. Better health care for less. New York : Hippocrene Books, 1993.

Serial Gaps

Please address serial issues to:

National Library of Medicine
TSD-GAPS Attn: C. Fields
Bethesda, MD 20894

American Journal of Gastroenterology 88:12, 1993
American Journal of Physical Medicine and Rehabilitation 72:4, 1993
Anesthesiology 78:5, 1993
Annals of the New York Academy 21, 1911/12; 579, 1990; 666, 1992
Archives of Dermatology 127:12, 1991
Archives of Internal Medicine 153:16, 1993
Archives of Ophthalmology 109:4,12, 1991
Biotechnic and Histochemistry 68:3,5, 1993
Bulletin/Hospital for Joint Diseases 52:3, 1993
Canada Communicable Disease Report 18:1-5,8,13, 1992; 19:1,3, 1993
Cellular Signalling 4:3-6, 1992
Convulsive Therapy 7:4, 1991
Coronary Artery Disease 2:2, 1991
Cutis 47:3, 1991; 51:5, 1993
Developmental Psychobiology 24:4, 1991
Disease-A-Month 32:9, 1986
International Immunology 3:12, 1991
International Journal of Fertility 18:1, 1973
Journal of American College Health 39:5-6, 1991
Journal of Bone and Joint Surgery. British Volume 73:3, 1991
Orthopedic Clinics of North America 25:1, 1994
Progress in Cardiovascular Nursing 6:2-4, 1991; 7:2, 1992
Spine 15:11, 1990
Transactions and Studies of the College of Physicians of Philadelphia 34:1-4, 1976; 37:1, 1969; 44:1-3, 1976; 45:1-2, 1978; 13:2, 1991; 14:2, 1992; 15:1-3, 1993
Transplantation 1:1991
Wisconsin Medical Journal 90:12, 1991 □

NLM's HSTAT Provides Major Resource

HIV/AIDS Treatment Information Service (ATIS)

The Department of Health and Human Services has announced the start of the first 800-number service that provides federally approved treatment information about HIV/AIDS. Now HIV/AIDS patients and health care professionals who care for them can call *ATIS*—the AIDS Treatment Information Service—at **1-800-HIV-0440.** Callers speak to health information experts, including those who are fluent in Spanish, about up-to-date AIDS treatments. Deaf access (TDD) is included. The service is provided Monday through Friday, 9:00 a.m. to 7:00 p.m. EST. All calls are completely confidential.

NLM's full-text database *HSTAT* (Health Services and Technology Assessment Text), a major resource for ATIS, is available to the public at no charge. HSTAT is continually updated to include all federally approved HIV/AIDS treatment information. Among the clinical practice guidelines found in HSTAT are chapters on early HIV infection in adults, caring for adolescents, early HIV infection in infants and children, and case management.

The HSTAT database can be accessed 24 hours a day via computer, using a modem or over the Internet (*News,* March–April 1994); see also the new AIDS Information Resources fact sheet in this issue, page 12). For more information on HSTAT, contact:

National Information Center on Health Services Research and Health Care Technology (NICHSR)
National Library of Medicine
Bethesda, MD 20894

Telephone: 1-800/272-4787
(Select 1,6,3,2) or 301/496-0176
E-mail: nichsr@nlm.nih.gov

A phone call to ATIS can also provide access to other related Public Health Service information services including: the CDC National AIDS Hotline; the CDC National AIDS Clearinghouse; the AIDS Clinical Trials Information Service; the HRSA-sponsored Warmline (treatment information for physicians only); the SAMHSA National Drug Information, Treatment and Referral Hotline (information on drug treatment and community resources); and the SAMHSA National Clearinghouse for Alcohol and Drug Information. □

NLM Director to Resign as HPCC Coordinator

Dr. **Donald A. B. Lindberg**, director of the National Library of Medicine, recently announced his intention to resign as director of the High Performance Computing and Communications (HPCC) National Coordination Office, a post he has held concurrently with the NLM directorship since September 1992 (*News,* September–October 1992). The HPCC is the multi-agency Federal initiative that fosters the rapid development of high performance computers and networks and the use of these resources throughout the Nation. Dr. Lindberg will remain interim HPCC Coordinator until the White House names his successor.

Dr. **John H. Gibbons**, assistant to the President for Science and Technology, stated that Dr. Lindberg, as HPCC's first director, "has done a magnificent job in establishing and leading the HPCC Program in its critical formative years." A recent Congressional report by the U.S. General Accounting Office stated that "To date, the HPCC Program and its predecessor agency programs have been highly successful. Participating agencies have been instrumental in establishing more than a dozen high performance computing research centers throughout the U.S."

In a message to senior NLM staff dated January 5, 1995, Dr. Lindberg noted, "Although it has been an exhilarating several years, I know there are challenges facing the Library that require my full-time attention. I look forward to devoting my energies to these challenges..." □

NLM Honor Awards Ceremony

The Library's annual honor awards ceremony, held December 13, saluted the achievements of individuals and groups throughout the Library.

The following employees received NIH Merit Awards:

• **Christa F.B. Hoffmann**, Cataloging Section, for "significant leadership in development policies and practices that have substantially increased NLM's cataloging output and the currency and availability of national level bibliographic records."

• **Richard K.C. Hsieh**, Dr. P.H., International Programs, for "accomplishments to promote worldwide access to the National Library of Medicine's information resources, particularly in developing countries."

• **David L. Nash**, Office of Equal Opportunity, for "significant ingenuity and leadership in advancing equal opportunity for all employees."

• **Angela B. Ruffin**, Ph.D., NN/LM Network Office, for "exceptional contributions to the outreach programs of NLM."

• **Catherine Soehner**, MEDLARS Management Section, for "leadership and management skills promoting utilization of biomedical information by health professionals using Grateful Med."

• **Theodore E. Youwer**, Administrative Management Services Office, for "demonstration of superior managerial skills which greatly enhanced the quality of support services provided the NLM."

Peggy S. Tillman, Ph.D., Public Services Division, received the Philip C. Coleman Award "in recognition of her highly valued mentoring and career counselling of NLM staff that result in enhanced opportunities for the National Library of Medicine's diverse workforce."

Acknowledgement was made of the following previously announced awards:

• *NIH Award for Outstanding Service in Small Purchases:* To **Karen D. Riggs**, Acquisitions Management Office, for "demonstrating outstanding leadership and initiative in the supervision and management of NLM's small purchases activities."

• *PHS Commendation Medal:* To **Richard P. Rodgers**, M.D., Lister Hill Center, for "the creation of advanced demonstration projects for network-based information discovery and retrieval, with exemplary use of graphical interfaces to multimedia resources."

• *NLM Director's Awards:* To **Alvin J. Barnes**, Public Services Division, for "furthering NLM's mission by applying remarkable library science skills on behalf of the people and of the library staff," and to Milton Corn, M.D., for "contributions to the nation's health through vigorous and exemplary leadership of NLM's Extramural Programs."

• *Frank B. Rogers Award:* To **Dianne McCutcheon**, Serial Records, for "development of an online interactive SERHOLD module which allows SERHOLD coordinators...to view, add, update, or delete holdings data directly online...."

• *NLM Board of Regents Award:* To **Lawrence E. Hunter**, Ph.D., Lister Hill Center, for "outstanding achievements in the field of artificial intelligence and for conception, inspiration and contribution to Molecular Biology."

Over 180 employees were honored with individual and group awards for sustained superior performance or for special acts or service. Forty-two employees received length-of-service awards, one of whom, **Thelma Charen** of the Medical Subject Headings Section, received a fifty-year award. □

NLM Alumni Honored

• NLM Director Emeritus **Martin M. Cummings**, M.D., has been elected chairman of the Council of Library Resources (CLR) Board of Directors. Dr. Cummings, who was director of the National Library of Medicine from 1964 until his retirement in 1983, became a member of the Council's Board in 1982, serving recently as vice chairman and acting chairman and as a member of the Board's executive committee. In the same action, former NLM Regent **William N. Hubbard**, Jr., M.D., was elected vice chairman of the CLR Board. Dr. Hubbard is former president of the Upjohn Company.

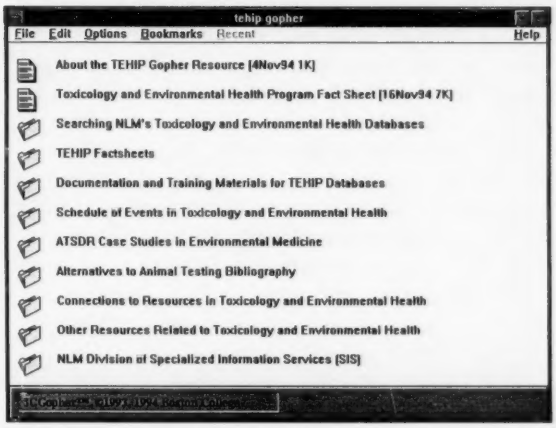
• **Edward A. Feigenbaum**, Ph.D., another former NLM Regent, was recently selected as co-recipient (with **Raj Reddy**, Ph.D., from Carnegie Mellon University) of the Association for Computing Machinery's prestigious Turing Award for 1995. □

Toxicology and Environmental Health Information Program Gopher Now Available

The Toxicology and Environmental Health Information Program (TEHIP) of NLM's Specialized Information Services Division is now represented on the NLM gopher. The TEHIP Gopher is designed to facilitate Internet access to national and international resources focusing on toxicology and environmental health.

Easily accessible are documentation and computer-based training materials for the MEDLARS toxicology databases, a calendar of meetings, and a list of courses and publications of interest to those working in the areas of toxicology, environmental health and medicine, and occupational health and medicine. The Specialized Information Services publication *Alternatives to the Use of Live Animals in Biomedical Testing and Research* is also on the gopher in ascii text format. All of these materials are available for downloading to the user's system from the gopher (gopher to *gopher.nlm.nih.gov*) or the associated ftp service (ftp to *public.nlm.nih.gov*).

The TEHIP gopher team* has identified additional useful resources on the Internet, and the connections to these other services have been built into the gopher, offering convenient access to various national and international sites having information on topics related to toxicology and environmental health and medicine.


tehip gopher
File Edit Options Bookmarks Recent Help
About the TEHIP Gopher Resource [4Nov94 1K]
Toxicology and Environmental Health Program Fact Sheet [16Nov94 7K]
Searching NLM's Toxicology and Environmental Health Databases
TEHIP Factsheets
Documentation and Training Materials for TEHIP Databases
Schedule of Events in Toxicology and Environmental Health
ATSDR Case Studies in Environmental Medicine
Alternatives to Animal Testing Bibliography
Connections to Resources in Toxicology and Environmental Health
Other Resources Related to Toxicology and Environmental Health
NLM Division of Specialized Information Services (SIS)

Questions regarding the TEHIP gopher can be e-mailed to: *tehip@teh.nlm.nih.gov*

Or contact:

TEHIP Gopher Project
Specialized Information Services Division
National Library of Medicine
8600 Rockville Pike, 38A-4s408
Bethesda, MD 20894
Telephone: 301/496-5022 □

*Carol B. Haberman, chair; **Cheryl E. White, Stacey J. Arnesen, Patricia C. Dickinson, Jeanne C. Goshorn, George F. Hazard Jr., Vera W. Hudson, Dorothy L. Moore,** and **Philip I. Wexler.**

HSRProj: New Database on Health Services Research Projects

HSRProj—a new database providing access to grants and contracts in health services research—is now accessible via NLM's MEDLARS network of databases and databanks. It is presently available for searching through Elhill command language (type *file hsrproj* at the MEDLARS prompt to access the database); later this year it will be added to the list of Grateful Med's user-friendly databases.

The HSRProj database includes citations to research in progress funded by federal and private grants and contracts. HSRProj builds upon a prototype developed by staff of the Foundation for Health Services Research and the Cecil G. Sheps Center at the University of North Carolina with funding from the Pew Charitable Trusts. HSRProj is modeled on the DENTALPROJ database.

HSRProj contains information describing ongoing projects in health services research for use by policy makers, managers, clinicians, other decision

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makers, and researchers seeking others working in their field. It provides access to information about health services research in progress before results are available in a published form.

Users can retrieve names of performing and sponsoring agencies, names and addresses of the principal investigator, beginning and ending years of the project, level of funding, information about study design and methodology including demographic characteristics of the study group, number of subjects in the study population, population base of the study sample, and source of the project data. Records are indexed with NLM's Medical Subject Headings (MeSH) and, when available, CRISP keywords. Also, project descriptions are included whenever possible.

Records cover both grants and contracts awarded by several major public and private funding agencies including: the Agency for Health Care Policy and Research (AHCPR), Health Care Financing Administration (HCFA), National Institute on Aging (NIA), National Institute of Nursing Research (NINR), National Institute of Mental Health (NIMH), National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Institute on Drug Abuse (NIDA), Office of Rural Health Policy, Department of Veterans Affairs, Commonwealth Fund, Pew Charitable Trusts, Robert Wood Johnson Foundation, John A. Hartford Foundation, Henry J. Kaiser Family Foundation, and the William T. Grant Foundation.

SECONDARY SOURCE ID	HSR/93210100
TITLE	Impact of technology on rural hospital financial performance and physician recruitment and retention
IDENTIFICATION NUMBER	CSR 000003,01,0
INVESTIGATORS	Hartley David
ADDRESS	University of Minnesota, Rural Health Research Center, 420 Delaware St. SE Box 729, Minneapolis, MN 55455-0392
TELEPHONE NUMBER	IR: 612-627-4304
TELEPHONE NUMBER	PO: 612-624-6151
TELEFACSIMILE	612-627-4415
ELECTRONIC MAIL ADDRESS	hartl001@staff.tc.umn.edu
PERFORMING ORGANIZATION	University of Minnesota Rural Health Research Center
DATA SOURCE	Survey
POPULATION BASE	Regional
NUMBER OF SUBJECTS	470
STUDY POPULATION	Rural hospitals
SUPPORTING AGENCY	Office of Rural Health Policy, Health Resources and Services Administration
AWARD TYPE	Grant
INITIAL YEAR	9201
FINAL YEAR	9501
FUNDING TOTAL	$1,196,092
FUNDING CURRENT YEAR	$298,501
STATE	MN
ZIP CODE	55455-0392
COUNTRY	United States
MESH HEADING	HOSPITALS, RURAL; PERSONNEL, HOSPITAL; TECHNOLOGY, MEDICAL; UNITED STATES
ABSTRACT	This project estimates the relationship among technology acquisition, size and composition of medical staff, and financial performance in rural hospitals.
ENTRY MONTH	9310

Sample HSRProj Record.

The National Information Center on Health Services Research and Health Care Technology (NICHSR), which was established at NLM by the 1993 NIH Revitalization Act, coordinated the development of HSRProj. For additional information, please contact the NICHSR; e-mail: *nichsr@nlm.nih.gov;* telephone: *301/496-0176.* □

Nominations Solicited for Rogers Award

If you have been especially impressed with the work of an NLM employee, you are invited to nominate him or her for an award named in honor of former NLM director **Frank B. Rogers**, M.D.

The Frank B. Rogers Award was established in 1989 and is supported by a gift donated anonymously by an NLM employee. (The Medical Library Association has a separate award named for Dr. Rogers.) The purpose of the award is "to recognize an employee who has made a significant contribution to the Library's fundamental operational programs and services."

Previous winners have included **Margaret Byrnes** (Preservation), **Carolyn Tilley** (MEDLARS Management), **Nancy Wright** (Indexing), and **Dianne McCutcheon** (Serial Records).

Any individual who is currently employed or was employed in 1994 at NLM is eligible. The employee must have made a direct contribution that has 1) resulted in a substantial improvement to one of the Library's programs or services, 2) resulted in an important new program or service, or 3) resulted in a more effective operation of a program or service. Employees who have received another form of recognition for this contribution are not eligible.

Nominations are sought from the Library's user community as well as from NLM employees. They should include an explanation of the activity that warrants consideration, the employee's relation to the activity, and the significance of this activity on fundamental operations.

Nominations are due by **March 15th** to: Director, National Library of Medicine, *Attn: Nomination for Frank B. Rogers Award,* 8600 Rockville Pike, Bethesda, MD 20894.

□

D.C. High School Opens NLM-Supported Media Center

On January 11, 1995, Calvin Coolidge Senior High School opened a new media center supported by the National Library of Medicine. The center promises to make this D.C. inner city, science-oriented school one of the more communications-savvy high schools in the nation's Capital.

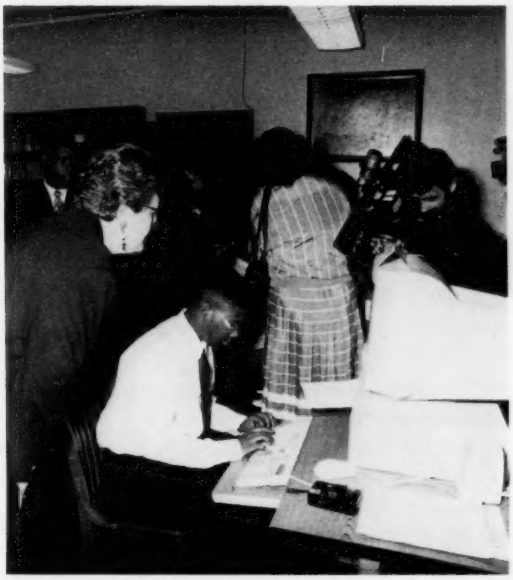
The formal ribbon-cutting ceremony included remarks by NLM Director **Donald A. B. Lindberg,** M.D., and Coolidge principal **Leonard Upson,** as well as by a number of representatives of the D.C. school system and D.C. Council member **Charlene Drew Jarvis.**

Following the ceremony, guests and representatives of the media saw demonstrations of the new center's capabilities by Coolidge students and faculty. The event was coordinated by **Cynthia Gaines** of NLM's Specialized Information Services Division and Coolidge librarian **Pauleze Bryant**.

The media center is one of the results of a "Declaration of Partnership" forged early in 1994 between Coolidge and NLM (*News,* March–April 1994).

The work stations in the new media center have been set up to access Internet-available resources through such "browsers" as NCSA Mosaic—allowing color, motion, and sound in addition to high-speed linkages to textual information. NLM staff members have held a number of training sessions at the Library and at Coolidge to help students and faculty members gain skill in using the new work stations.

Coolidge principal Upson, NLM director Lindberg, and Coolidge librarian Bryant open the high school's new Library Media Resource Center.



Pamela Meredith, head of NLM's Reference Section and coordinator of NLM-Coolidge training activities, watches as Coolidge student Joel Desormeaux demonstrates some of the features of the new Internet hookup. A member of WRC-TV's camera crew records the event for broadcast later in the day.

In addition to its work in helping to establish the new media center, NLM has been collaborating with the Coolidge faculty and staff to provide a variety of programs designed to encourage students to pursue careers in science and medicine, including engineering, computer sciences, medical informatics, biotechnology, and library and information science. A number of Coolidge students and faculty members spent seven weeks last summer at the Library getting valuable training in accessing information now available directly through the school's new facility. □

Doralee Agayoff Dies; Worked 48 Years at NLM

Friends and colleagues at the NLM mourn the passing of an era. **Doralee Agayoff**, senior reference librarian and an employee of the National Library of Medicine for nearly five decades, died on December 28, 1994, after a long illness.

Mrs. Agayoff

Mrs. Agayoff entered government service on April 23, 1946, when she joined the staff of the Army Medical Library located in downtown Washington, D.C. In 1956, the Library changed its name to the NLM and in 1962, relocated to its present site in Bethesda. Her 48-year career with the Library was spent in the various incarnations of what is now called the Collection Access Section.

During her career at NLM, Agayoff received numerous commendations. Her astuteness in locating information and her unusual depth of knowledge of the General Collection and the collection of the History of Medicine Division earned her a comparison to such fictional detective greats as "Miss Marple" and "Sherlock Holmes." An article written on her 45th anniversary with the Library called her the "sleuth of the stacks." Staff and patrons alike admired her for even-handed, gentle manner as well as for her experience and expert advice. A favorite place for her was the History of Medicine Division, where she would spend hours searching and identifying little known sources.

In recalling her greatest challenge on the job, she once stated, "I left my computer untouched for almost a year before I decided to give it a try, but when I did my job was never the same. It opened another world."

Since Mrs. Agayoff loved children and was an enthusiastic supporter of NIH, a fund has been established in her memory at the Children's Inn. Those wishing to contribute should contact **Jean Buergler** at the Children's Inn: (301) 496-5672.

—Julia Player, Public Services Division

Publications

Cumulated Index Medicus, 1994

The 1994 edition of *Cumulated Index Medicus* (Volume 35) may now be ordered from the Government Printing Office (see advance order form, page 11). This compilation of citations appearing in the monthly *Index Medicus* in 1994 is scheduled to appear in April 1995.

- *Cumulated Index Medicus*, 1994. Price: **$397** ($496.25 foreign) per set of 17 books (shipped in three cartons). Available from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. GPO Phone Orders: 201/783-3238. Stock Number: *S/N 617-052-00309-1.*

Cumulated Abridged Index Medicus, 1994

This annual cumulation of citations appearing in the monthly *Abridged Index Medicus* is expected to appear by early March 1995. Order from GPO.

- *Cumulated Abridged Index Medicus*, 1994. Price: **$93** ($111.60 foreign). Stock Number: *S/N 017-052-00320-8.*

NLM Classification, Fifth Edition, 1994

The last issue of the *News* reported on the imminent arrival of the new edition of the *NLM Classification* at the Government Printing Office. Since

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that announcement, several printing problems occurred which were beyond the Library's control, but as this issue of the *News* goes to press NLM has learned that GPO received its shipment in late February and has begun filling orders. Any questions about orders should be addressed to GPO. For those who missed the last announcement, ordering information is provided below.

- *National Library of Medicine Classification,* Fifth Edition, 1994. **$40** ($50 foreign). GPO Stock Number: *S/N 017-052-00319-4.* (Address orders to: New Orders, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Fax: 202/512-2250.)

List of Serials Indexed for Online Users, 1995

The 1995 edition of the *LSI* is scheduled to appear in early April and may now be ordered from the National Technical Information Service (see below). It contains 8,378 serial titles (3,763 are indexed in MEDLINE) listed alphabetically by abbreviated titled followed by full title. It is designed to provide complete bibliographic information on serials and congress proceedings cited in MEDLINE (including the backfiles), AIDSLINE, Health Planning & Administration (HEALTH), BIOTECHSEEK (abbreviated BIOSEEK), and HSTAR.

- *List of Serials Indexed for Online Users,* 1995. Price: **$24** ($48 foreign); $12.50 microfiche ($25 foreign m/f). National Technical Information Service, Springfield, VA 22161. 703/487-4650. Accession No. PB95-965201.

MeSH Supplementary Chemical Records, 1995

This publication, scheduled to appear in early March, is designed to assist indexers and the users of *Index Medicus* and MEDLINE. For the indexer, it provides more specific entries than those available in *Medical Subject Headings.* It permits users of *Index Medicus* to locate the chemical subject headings under which citations referring to a more specific chemical can be found. It contains records of approximately 23,000 chemicals which since 1970 have been mentioned in a significant way in journals indexed in MEDLINE. (The present list does not include any of the chemical descriptors that are found in the D category of MeSH.)

- *Medical Subject Headings, Supplementary Chemical Records,* 1995. Price: **$50** ($100 foreign); $24 microfiche ($48 foreign m/f). National Technical Information Service. Accession No. PB95-965001.

New *Current Bibliographies in Medicine*

NLM's Reference Section produces a series of bibliographies covering a distinct subject area of current interest to the biomedical community.

The *CBM94* series concludes with the two titles listed below; they are available individually for **$8** ($10 foreign). The Superintendent of Documents has announced prices for the 1995 series, which begins with the bibliography on Gaucher disease (see below). The annual subscription price is **$47** ($58.75 foreign); individual copies: **$4.75** ($5.94 foreign). A list of available titles appears in each monthly issue

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NLM in Print

The following references cite works that discuss the products and services of the National Library of Medicine. If you know of other appropriate citations for this column, please send reprints or references to the editor, *NLM News,* National Library of Medicine, Bethesda, MD 20894. (Note: Some of the articles below may be from journals that are out of scope for the NLM collection and are therefore not available from the Library on interlibrary loan.)

Baldwin F. Linking up with MEDLINE. Pa Med 1994 Oct;:12-3.

Benson DA, Boguski M, Lipman DJ, Ostell J. GenBank. Nucleic Acids Res 1994 Sep;22(17):3441-4.

Cont. p. 10

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Cahn MA. Practice guidelines: a piece of the quality puzzle. Bull Med Libr Assoc 1994 Jul;82(3): 312-4.

Chisnell C, Dunn K, Sittig DF. A quantitative method for identifying specific educational needs among CD plus MEDLINE searchers: a pilot study. Proc Annu Symp Comput Appl Med Care 1994;:979.

Corn M. Funding for computer-assisted instruction projects. Acad Med 1994 Dec;69(12):958-60.

Crabtree AB. Teaching OVID/MEDLINE in the hospital library. Natl Network 1994 Apr;18(4):15-6.

DuBois K, Rizzolo MA. Cruising the "information superhighway." Am J Nurs 1994 Dec;:58-60.

Dunn K, Chisnell C, Szak S, Sittig D. A quantitative method for measuring library user journal needs: a pilot study using CD plus MEDLINE usage statistics. Proc Annu Symp Comput Appl Med Care 1994;:108-12.

Fanning O. Work of early Arabic physician featured at the NLM exhibit. Intern Med World Rep 1994 Nov 15-30;:26.

Hawkes N. Executed killer reborn as "Visible Man" on Internet: scientists assemble computerized body atlas from Death Row donor. Lond Times 1994 Nov 29.

Hildebrand JR III. Computer technology: making contributions to patient care. Am Druggist 1994 Dec;:52-7.

Jones SM. Medical information giveaways. Md Med J 1994 Jun;43(6):527-8.

McKibbon KA, Walker-Dilks CJ. Beyond ACP Journal Club: how to harness MEDLINE for diagnostic problems [editorial]. ACP J Club 1994 Sep–Oct;121 Suppl 2:A10-2.

Mehnert RB. National Library of Medicine. Crab [MD Lib Assoc Newsl] 1994-5 Winter;25(2):8.

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FACT SHEET
A World of Knowledge for the Nation's Health
January 1995

AIDS INFORMATION RESOURCES

A comprehensive AIDS information service is vital if scientists, physicians, educators, and other health professionals are to have rapid access to the latest information on AIDS research, diagnosis, treatment, control, and prevention. Staff at the National Library of Medicine, the world's largest medical library, have been developing components of such a service since the AIDS crisis began in 1980.

Legislative Mandate

The Health Omnibus Program Extension of 1988 (P.L. 100-607) called for the National Library of Medicine to help create a "data bank of information on the results of research with respect to acquired immune deficiency syndrome conducted in the United States and other countries" [Sect. 3217 (c)]. This legislation supplements NLM's original mandate (the "National Library of Medicine Act of 1956") under which the Library collects, preserves, and disseminates the world's published medical information.

NLM Resources on AIDS

The following NLM services are available to AIDS information seekers. The databases are searchable at libraries, other institutions, and through personal computers. Grateful Med®, an NLM software package to search MEDLARS®, is also available (see page 2). The publications are available free or from the Government Printing Office as noted. Phone numbers for further information are found on the reverse.

- AIDSLINE® is an online computer file with over **100,000** references to the literature on AIDS published since 1980. Over 50 percent of the references have abstracts. AIDSLINE contains AIDS-related citations from the following MEDLARS databases: MEDLINE, Health Planning & Administration, CANCERLIT®, BIOETHICSLINE, AVLINE® and CATLINE®. AIDSLINE also contains all abstracts of papers presented at the Fifth through the Tenth International Conferences on AIDS, the Symposium on Nonhuman Primate Models for AIDS, and the Annual Meeting of the American Society for Microbiology. Starting in January 1995, citations to health-related articles from more than 20 HIV/AIDS-related newsletters are being added to the database. AIDSLINE is updated weekly; about 1000 new citations are added each month.

The Library will continue to add meeting abstracts from the International Conference on AIDS and other selected meetings.

- AIDSTRIALS and AIDSDRUGS are two databases that provide online access to current information on clinical trials of drugs and vaccines being tested against AIDS, HIV infection, and AIDS-related opportunistic infections. The information about the NIH-sponsored trials is supplied by the National Institute of Allergy and Infectious Diseases (NIAID); the information about the privately sponsored trials is furnished by the Food and Drug Administration (FDA). AIDSTRIALS provides a central source for searchers to find information about AIDS-related clinical trials including a description of the purpose of the trial, eligibility criteria, contact persons, agents being tested, and trial locations. AIDSDRUGS contains descriptive information, such as pharmacologic action and contraindications, about each agent being tested in these clinical trials. (The information in these two files is also available through the toll-free PHS AIDS Clinical Trial Information Service: 1-800-TRIALS-A. This service is supported by NIAID, FDA, NLM and CDC.)

- The HIV/AIDS Treatment Information Service (ATIS) is a collaborative project of the Public Health Service to provide access to federally

approved treatment guidelines and recommendations. The guidelines are available online in the HSTAT database (Health Services and Technology Assessment Text). HSTAT is available through World Wide Web (http://www.nlm.nih.gov), telnet (text.nlm.nih.gov or 1-800-952-4426; login as hstat), gopher (gopher.nlm.nih.gov) or through Grateful Med. The documents also may be downloaded via anonymous ftp from nlmpubs.nlm.nih.gov. Voice access to reference specialists who will search this database is available at 1-800-HIV-0440.

- GenBank® is a comprehensive database of DNA and protein sequence data from any organism. It includes more than 1,100 entries for HIV sequences and more than 600 for SIV sequences. This information is available via Internet e-mail. For detailed information send help messages to retrieve@ncbi.nlm.nih.gov (keyword, locus name, author, etc. searching) or blast@ncbi.nlm.nih.gov (sequence matching).

- *AIDS Bibliography* is a monthly printed bibliography derived from AIDSLINE and produced by the Library's Reference Section. It contains references to journal articles, books, audiovisual materials, and conference papers. References are displayed in both subject and author arrangements. Order *AIDS Bibliography* from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, Pa., 15250-7954. Phone: (202) 783-3238). Yearly subscription: $80 ($100 foreign); GPO List ID is ABIM. The *AIDS Bibliography* is also available via anonymous ftp from nlmpubs.nlm.nih.gov.

- DIRLINE® is an online, annotated directory listing some 15,000 organizations. It includes information on over 2,000 national, international, federal, and community organizations that provide services specifically related to AIDS. These organizations provide services or information including direct support services, counseling, and databases; clinics and hospitals are not included. This information is supplied to NLM by the CDC National AIDS Clearinghouse.

- AIDS Posters: The Historical Prints and Photographs section in the Library's History of Medicine Division actively collects medical posters, including those on AIDS. To date, this international collection includes some 750 AIDS posters. For further information about how the Library acquires and distributes its pictorial materials, contact the curator of the prints and photographs collection: Phone: (301) 496-5961.

Grateful Med®

GRATEFUL MED is an inexpensive ($29.95), microcomputer-based software package, developed by NLM, that provides easy access to more than 40 databases in the MEDLARS system. It is available for IBM/compatible and Apple Macintosh personal computers. Many of the databases, including those preceded with an asterisk (*) below, are searchable in a "user-friendly" mode, with no training needed; the others require some knowledge of the system's formal command language. While nearly all of NLM's databases contain AIDS-related information, the ones listed here are of primary interest to AIDS researchers.

- AIDSLINE
- AIDSTRIALS and AIDSDRUGS
- DIRLINE
- POPLINE (population information resources; some 3500 related to AIDS)
- HSTAT

For more information about Grateful Med: call (301) 496-6193 or (800) 638-8480. **To order:** contact the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Va. 22161; Phone: (703) 487-4650; fax (703) 321-8547. The cost: $29.95. (Available U.S. and Canada only.) Order numbers: IBM and compatibles: *PB92-105444;* Macintosh: *PB93-502433.*

Further Information On ...

- AIDSLINE and accessing NLM's databases: **1-(800) 638-8480.**
- AIDSTRIALS and AIDSDRUGS: **(301) 496-3147**
- HSTAT: **1-(800) 272-4787** (select 1,6,3,2) for information about the database only; for treatment information: 1-(800) HIV-0440.
- *AIDS Bibliography* (and general reference questions on AIDS resources): call **(301) 496-6095** or **1-(800) 272-4787.**
- To order more copies of this fact sheet or other NLM information materials: call **(301) 496-6308.** Toll free number is **1-800-272-4787**, then select codes 1,1,3,1.

NATIONAL INSTITUTES OF HEALTH
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FACT SHEET
A World of Knowledge for the Nation's Health
February 1995

THE NATIONAL LIBRARY OF MEDICINE

The National Library of Medicine (NLM) is the world's largest research library in a single scientific and professional field. The Library collects materials exhaustively in all major areas of the health sciences and to a lesser degree in such areas as chemistry, physics, botany and zoology. The collections today stand at 5 million items—books, journals, technical reports, manuscripts, microfilms, and pictorial materials. Housed within the Library is one of the world's finest medical history collections of old (pre-1914) and rare medical texts, manuscripts, and incunabula.

The Library's extensive collections and information services may be used by health professionals and health-science students. Books and journals may be consulted in the reading room; they may also be requested on interlibrary loan. Medical audiovisual materials may be viewed in the Library's Learning Resource Center and may be borrowed on interlibrary loan. There is a fee for all interlibrary loan transactions.

NLM serves as a national resource for all U.S. health science libraries. Lending and other services are provided through a National Network of Libraries of Medicine (NN/LM™) consisting of 4,000 "primary access" libraries (mostly at hospitals), 125 Resource Libraries (at medical schools), 8 Regional Libraries (covering all geographic regions of the U.S.), and the NLM itself as a national resource for the entire Network. More than 2.5 million interlibrary loan requests are filled each year within this Network.

The Library occupies two buildings on the National Institutes of Health campus: the National Library of Medicine building (1962) contains the collection, reading rooms, and public services; the adjacent 10-story Lister Hill Center Building (1980) contains NLM's computer facility, an auditorium, research and development laboratories, the Toxicology Information Program, and the Extramural Program (grants). The two buildings total some 432,000 square feet.

MEDLARS®

The Library's computer-based Medical Literature Analysis and Retrieval System (MEDLARS) was established to achieve rapid bibliographic access to NLM's vast store of biomedical information. Historically, it was a pioneering effort to use the emerging computer technology of the early 1960s for the production of bibliographic publications and for conducting individualized searches of the literature for health professionals. MEDLARS continues to be used for preparing and photocomposing bibliographic publications. *Index Medicus*®—the monthly subject/author guide to articles in 3,000 journals—is the most well known of these but dozens of other specialized medical bibliographies are produced as well. (A complete list of NLM publications is available.) Today, through communications networks, MEDLARS search services are available online to individuals and institutions throughout the world.

Over the years of its evolution, MEDLARS has come to represent a family of databases of which the MEDLINE® database is the most well known. Essentially *Index Medicus* online, MEDLINE enables individuals and organizations with computer terminals to query the NLM computer's store of journal article references on specific topics. MEDLINE currently contains seven million references going back to 1966.

Besides MEDLINE, which became operational in 1971, NLM now has some 40 other databases—for cataloging and serials information, toxicological and chemical data, information on audiovisual materials, and information on cancer and other specialized areas of health and disease.

All of the MEDLARS databases are available through NLM's online network of more than 100,000 institutions and individuals in the United States. They performed some 7 million searches in 1994. User fees are charged by NLM to recover the full costs of providing access to the system. The availability of the user-friendly microcomputer-based access software, GRATEFUL MED®, has resulted in an upsurge of individual health professionals joining the NLM network. Access to the MEDLINE database is also available through four commercial networks and on CD-ROM from several private companies.

Research and Development

The Library's research and development is carried out by the Lister Hill National Center for Biomedical Communications and the National Center for Biotechnology Information (NCBI). The former, named after the late Senator from Alabama, explores the uses of computer, communication, and audiovisual technologies to improve the organization, dissemination, and utilization of biomedical information. The Center was established in 1968 and reorganized in 1983 to include the functions of NLM's National Medical Audiovisual Center.

The Lister Hill Center (LHC) played a lead role in developing the MEDLARS online retrieval system in the late sixties and since then has conducted a number of valuable communications experiments using NASA satellites, microwave and cable television, and computer-assisted instruction. Currently

the Center is investigating the potential of optical videodisc technology for document preservation, storage, and retrieval. Computer-based "Expert" systems that will make available to practitioners the knowledge of highly trained specialists have been devised in several medical fields. Another program seeks to create, in complete anatomical detail, three-dimensional representations of the male and female human body. This will result in a very large digital image library of volumetric data. "The Learning Center," a facility that makes available for on-site review the latest hardware and software in health sciences education, has been opened within the Lister Hill Center.

The Library's newest component, the National Center for Biotechnology Information, has assumed a leadership role in developing information services for biotechnology—the task of storing and making accessible the staggering amounts of data about the human genome resulting from genetic research at the NIH and laboratories around the nation.

Established by Congress in 1988, NCBI is a recognized leader in basic research in computational molecular biology. The Center is also responsible for developing innovative computer solutions for the management and dissemination of the rapidly growing volume of genome information. In October, 1992, the NCBI began distributing GenBank®, a collection of all known DNA sequences.

Toxicology Information Program

The Toxicology Information Program (TIP) was established at NLM in 1967 to provide national access to information on toxicology. The program is charged with setting up computerized databases of information from the literature of toxicology and from the files of both governmental and nongovernmental collaborating organizations.

Among the databases developed by TIP are TOXLINE® (Toxicology Information Online) and CHEMLINE®, and CHEMID®. The latter two are chemical directory files. TIP also implemented the TOXNET® (Toxicology Data Network) system of 12 toxicologically oriented data banks, including the HSDB® (Hazardous Substances Data Bank), useful in chemical emergency response and other applications. TIP also supports the Toxicology Information Response Center®, which provides reference services to the scientific community.

Grant Programs

The Extramural Programs Division of NLM provides a broad variety of grants to support research and development activities leading to the better management, dissemination, and use of biomedical knowledge. These support activities represent the only Federal assistance programs focusing on information issues that concern the entire health community. Grants are available to support research in medical informatics, health information science, and biotechnology information, as well as for research training in these areas. Network planning and development grants support computer and communication systems in medical centers and health institutions, and the study of new opportunities with high-speed computer networks in the health sciences. Health science library resource grants assist in improving information access and services for health professionals. Research and publications in the history of medicine and the life sciences are also supported with grants, as are a variety of scientific publication and communication activities needed by the health science community.

Statistical Profile of NLM
(September 30, 1994)

Collection (book and nonbook) - 5,016,000
Appropriation (FY 1994) - $118,019,000
Staff (full-time equivalents) - 614
Serial titles received - 23,250
Articles indexed (all databases) - 368,000
Journals indexed (for *Index Medicus*) - 3,127
Titles cataloged - 21,006
Budget for buying publications - $4,456,000
Circulation requests filled - 410,000
  For interlibrary loan - 230,000
  For readers - 180,000
Computerized searches (all databases) - 6,900,000
Grant awards (new and renewal) - 129
Amount obligated for grants - $28,420,000

Information for Visitors

- Address: The National Library of Medicine
  8600 Rockville Pike
  Bethesda, MD 20894

Note: NLM is conveniently served by the Metrorail rapid transit system. The Library is 300 yards south of the Medical Center stop on the "Red Line."

- Telephone: 1-800-272-4787 (health professional inquiries)
  (301) 496-6308 (public information)

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  Saturday: 8:30 a.m.-12.30 p.m.

  History of Medicine
  Monday through Friday: 8:30 a.m.-5:00 p.m.

- Tours: Monday through Friday: 1 p.m.
  Visitors Center (Lobby of Building 38A—The Lister Hill Center). Call (301) 496-6308 or write to the Public Information Office to make arrangements for groups.

Further Information

For more information about any of the programs described in this Fact Sheet, write to the Public Information Office, National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894,
(e-mail publicinfo@occshost.nlm.nih.gov).

From p. 9

of *Abridged Index Medicus* and *Index Medicus.* Mail orders to: New Orders, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. GPO Phone Orders: 202/783-3238.

Current Bibliographies in Medicine may also be downloaded at no cost via the Internet through the NLM Gopher (*gopher.nlm.nih.gov*) and via FTP (ftp to *nlmpubs.nlm.nih.gov* and login as: *anonymous,* using your e-mail address as the password).

- CBM 94-9: *Bioelectric impedance analysis in body composition measurement.* January 1989 through December 1994. 627 citations. [S/N 817-010-00009-1] Produced for an NIH Technology Assessment Conference.

- CBM 94-10: *Infectious disease testing for blood transfusions.* January 1975 through October 1994. 1,888 citations. [S/N 817-010-00010-5] Produced for an NIH Consensus Development Conference.

- CBM 95-1: *Gaucher disease.* January 1984 through January 1995. 594 citations. [S/N 817-011-00001-2] Produced for an NIH Technology Assessment Conference.

Part 2 of Scope Note on Bioethical Religious Perspectives Published

The National Reference Center for Bioethics Literature of the Kennedy Institute of Ethics has published the second part of the two-part "Scope Note," Religious Perspectives in Bioethics. Providing bibliographic citations to literature about the divergent attitudes religion can bring to bioethical issues, the 22-page resource (Scope Note 26) includes the views of Native American religious traditions, Protestantism (with specific information on individual denominations and sects), and Roman Catholicism. (The earlier Scope Note 25 alphabetically presented African religious traditions, Baha'i Faith, Buddhism and Confucianism, Eastern Orthodoxy, Hinduism, Islam, Jainism, and Judaism.) Topics covered include the physician-patient relationship, treatment refusal, contraception, abortion, sterilization, reproductive technologies, genetics, human experimentation, organ donation and transplantation, death, euthanasia, suicide, and prolongation of life. Separate reprints of Scope Notes 25 and 26 are available from the National Reference Center for Bioethics Literature, Kennedy Institute of Ethics, Georgetown University, Washington, DC 20057-1065, for **$5** each, prepaid ($8 overseas airmail). For further information, contact **Pat McCarrick**, 1-800-MED-ETHX.

Health Database Fact Sheet Updated

The American Hospital Association Resource Center has updated its four-page fact sheet on the Health Planning and Administration (HEALTH) database. File HEALTH provides access to journal articles concerned with the administrative aspects of health care delivery. It is one of the NLM databases accessible in a user-friendly mode via Grateful Med. To request a single, complimentary copy of AHA's fact sheet, send a self-addressed mailing label to the AHA Resource Center, American Hospital Association, One North Franklin, Chicago, IL 60606, or call 312/422-2000. □

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